

Figure 1.

Partial nucleotide sequence of the region of human chromosome 10 encoding GliTEN (SEQ ID NO: 1). The nucleotide sequence is from the NCBI Genbank data files (accession number AC005887). Shown are regions of the human locus identified by homology to a rodent glioblast-derived EST (clone 24.53, 87% identical to underlined sequence (SEQ ID NO: 2)) and the flanking human sequences encoding an open reading frame (capitalized letters) (SEQ ID NO: 3). Double underline: stop codon predicted to lie within intervening (intron) sequences. The encoded protein is 33% and 30% identical to the amino (N)-terminus of proteins predicted from genome sequence analysis of *Drosophila* and *C. elegans*. Both fly and worm predicted proteins also encode a carboxy terminus "C1" domain which is highly related (50% amino acid identity) to human chromosome 10 sequences located proximal to the sequence shown.

53581 agtagggggcc cgggaggagg cgggtggcggg ATGGGGCTGC TGCTCATGAT CCTGGCGTCG
53641 GCCGTGCTGG GTTCCTTCCT CACGCTCCTC GCCCAGTTCT TCCTGCTGTA CCGCAGACAG
53701 CCCGAGCCGC CGGCGGACGA GGCCGCCCGC GCGGGCGAGG GCTTCCGCTA CATCAAGCCA
53761 GTGCCGGGCC TGCTCCTAAG GGAGTACCTT TATGGCGGCG GCCGGGATGA GGAGCCCTCC
53821 GGAGCGGCCC CTGAGGGCGG CGCGACCCCC ACCGCGGCCC CCGAGACCCC CGCCCCGCCG
53881 ACGCGGGAGA CTTGCTACTT CCTCAACGCC ACCATCCTAT TCCTGTTCG GGAGTTGCGG
53941 GACACCGCGC TGACCCGCCG CTGGGTCACC AAGAAGATCA AGGTGGAGTT CGAGGAGCTG
54001 CTGCAGACCA AGACGGCCGG GCGCCTGCTG GAGGGGCTGA GCCTGCGGGA CGTGTTCCTG
54061 GGCGAGACGG TGCCCTTCAT CAAGACCATC CGGCTCGTGC GGCCAGTCGT GCCCTCGGCC
54121 ACCGGGGAGC CCGATGGCCC TGAAGGGGAG GCGCTGCCCG CCGCCTGCCC CGAGGAGCTG
54181 GCCTTCGAGG CGGAGGTGGA GTACAACGGG GGCTTCCACC TGGCCATCGA CGTGGACCTG
54241 GTCTTCGGCA AGTCCGCCTA CTTGTTTGTC AAGCTGTCCC GCGTGGTGGG AAGGCTGCGC
54301 TTGGTCTTTA CGCGCGTGCC CTTCAACCCAC TGGTTCTTCT CCTTCGTGGA AGACCCGCTG
54361 ATCGACTTCG AGGTGCGCTC CCAGTTTGAA GGGCGGCCCA TGCCCCAGCT CACCTCCATC
54421 ATCGTCAACC AGCTCAAGAA GATCATCAAG CGCAAGCACA CCCTACCGAA TTACAAGATC
54481 AGGtgagctg gaggtcgggg agggggcctg gctgccggga acccgggcct gggcgggacg

An EST-defined Probe for Cancer Progression

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Figure 2. Northern blot analysis of RNA transcripts in adult rat tissues.

Northern blot analysis of RNA transcripts in adult rat tissues hybridizing to a [32]-P labeled clone 24.53 cDNA probe. Autoradiographic exposure reveals two distinct transcripts of approximately 7,000 and 4,00 nucleotides present in three independent clones of rat glioblasts (clones i,ii,iii), present at lower levels in adult rat brain and thymus, and present in abundant levels in rat liver. The same transcript was expressed at high levels in a rat kidney cell line. Equal amounts of poly(A+) selected RNA from each tissue sample was present on the respective lanes of the nylon membrane.

